

1. (Twice Amended) A method of detecting electromagnetic [and/or nuclear] radiation, comprising the steps of:

exposing a microcantilever to a source of electromagnetic radiation, the microcantilever having at least one physical property affected by electromagnetic radiation;

monitoring electromagnetic radiation-induced changes in the at least one physical property; and

correlating changes in the at least one physical property to a measure of the electromagnetic radiation.

4. (Amended) A method according to claim ²⁵1, [further comprising forming a] wherein the microcantilever [using] is made of a material or materials which heat when exposed to electromagnetic radiation, changes in the at least one physical property of the microcantilever being temperature dependent, and the monitoring step comprises monitoring temperature-dependent changes in the at least one physical property of the microcantilever.

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5. (Twice Amended) A method according to claim ²⁵ 7, [further comprising forming a] ~~wherein the~~ microcantilever [using] is made of a material or materials which absorbs electromagnetic radiation and changes property as a function of the absorbed electromagnetic radiation, and the monitoring step includes monitoring stress-induced changes in the microcantilever and the correlating step includes correlating changes in stress to the presence of electromagnetic radiation.

8. (Twice Amended) lines 5 and 6, change "PSD" to -- position sensitive detector--.

As per
17. (Twice Amended) An apparatus for detecting electromagnetic [and nuclear] radiation, comprising:
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a radiation sensor having an element exposed to a source of electromagnetic radiation, the sensor having at least one physical property affected by the electromagnetic radiation;
means for monitoring electromagnetic radiation-induced changes in the at least one physical property of the sensor; and
means for correlating changes in the at least one physical property to a measure of the electromagnetic radiation.